



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/022,665

12/18/2001

Kameran Azadet

15-7

1787

47386 7590 05/14/2009

RYAN, MASON & LEWIS, LLP  
1300 POST ROAD  
SUITE 205  
FAIRFIELD, CT 06824

EXAMINER

TORRES, JOSEPH D

ART UNIT

PAPER NUMBER

2112

MAIL DATE

DELIVERY MODE

05/14/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

**UNITED STATES DEPARTMENT OF COMMERCE****U.S. Patent and Trademark Office**

Address : COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
10022665	12/18/2001	AZADET ET AL.	15-7

RYAN, MASON & LEWIS, LLP  
1300 POST ROAD  
SUITE 205  
FAIRFIELD, CT 06824

**EXAMINER**

Joseph D. Torres

ART UNIT	PAPER
----------	-------

2112	20090513
------	----------

DATE MAILED:

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner for Patents**

The claims were examined to determine if the process of claims 1-4,9,10 and 21-25 meet the requirements of a patent eligible process under 35 U.S.C. § 101.

Claim 1 recites, "calculating intersymbol interference estimates based on one or more multidimensional code symbols". Intersymbol interference is a physical phenomena occurring in a communication channel as a signal, modeled as a multidimensional symbol, passes through the physical communication channel. Intersymbol interference is particular to the physical communication channel on which the signal travels and the time of transmission, hence; can only be detected by examining the signal as it is extracted from the communication channel at a particular time.

It would be impossible to calculate "intersymbol interference estimates" without a machine (a modem, demodulator, equalizer, etc.) to extract the signal from the communication channel, hence; the process of claims 1-4,9,10 and 21-25 must be tied to and electrically connected to some machine (a modem, demodulator, equalizer, etc.) for extracting signal information.

Hence, claims 1-4,9,10 and 21-25 meet the requirements of a patent eligible process under 35 U.S.C. § 101.

/Joseph D Torres/  
Primary Examiner, Art Unit 2112